

Comparisons of Job Characteristics

Focus Occupation: Petroleum Engineers (17-2171)

Associated Occupation: Supervisors of Construction and Extraction Workers (47-1011)

Compare Knowledge

Compare Skills

Compare Abilities

Compare Detailed Work Activities

Compare Tools and Technologies

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 33

Focus Occupation: Petroleum Engineers (17-2171)

Associated Occupation: Supervisors of Construction and Extraction Workers (47-1011)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Building and Construction	4.0	16.9	4.4	<<	Extensive education and/or training may be required
Mechanical	6.8	13.9	9.3	<<	Extensive education and/or training may be required
Administration and Management	8.4	12.8	12.9	0	Current knowledge level may be sufficient
Mathematics	9.2	12.8	17.4	>>	Current knowledge level is likely more than sufficient
Design	5.2	10.9	9.7	<	Expanded education and/or training may be required
Engineering and Technology	5.7	10.6	22.0	>>	Current knowledge level is likely more than sufficient
Public Safety and Security	6.9	10.2	7.3	<<	Extensive education and/or training may be required
Personnel and Human Resources	5.6	8.6	7.2	<	Expanded education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 68

Focus Occupation: Petroleum Engineers (17-2171)

Associated Occupation: Supervisors of Construction and Extraction Workers (47-1011)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Coordination	9.1	12.2	12.0	0	Current skill level may be sufficient
Management of Personnel Resources	6.9	11.6	10.7	0	Current skill level may be sufficient

Time Management	8.9	11.2	11.8	0	Current skill level may be sufficient
Persuasion	7.4	9.6	8.3	<	A higher skill level may be required
Equipment Selection	3.3	6.9	2.5	<<	Extensive development of skills in this area may be required
Management of Material Resources	3.7	5.6	7.3	>	Skill level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities	Similarity of Focus Occupation to Associated Occupation: 90				
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Oral Comprehension	12.5	13.4	15.0	>	Current ability level is likely sufficient
Oral Expression	12.4	13.3	15.2	>	Current ability level is likely sufficient
Problem Sensitivity	11.1	12.1	13.9	>	Current ability level is likely sufficient
Deductive Reasoning	10.6	11.2	13.0	>	Current ability level is likely sufficient
Near Vision	11.1	11.0	11.5	0	Current ability level may be sufficient
Written Comprehension	11.0	10.7	15.7	>>	Current ability level is likely more than sufficient
Written Expression	9.8	10.6	14.8	>>	Current ability level is likely more than sufficient
Inductive Reasoning	10.2	10.4	14.2	>>	Current ability level is likely more than sufficient
Visualization	7.5	9.8	9.3	0	Current ability level may be sufficient
Number Facility	6.3	8.2	9.4	>	Current ability level is likely sufficient
Time Sharing	6.6	7.9	8.5	0	Current ability level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common	Similarity of Focus Occupation to Associated Occupation: 65
Work Activities	Exclusivity of Activity
Assign work to staff or employees	30
Direct and coordinate activities of workers or staff	3
Inspect project operations, or site to determine specification compliance	72
Perform safety inspections in construction or resource extraction setting	46
Plan construction of structures or facilities	75
Prepare reports	8

Prepare safety reports	60
Read blueprints	10
Read technical drawings	7

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 84

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Tools and Technologies	Exclusivity
Business function specific software	1
Computer data input devices	2
Computers	1
Content authoring and editing software	1
Data management and query software	1
Industry specific software	1
Information exchange software	1

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.